

# 2-Methylpropionic acid, 4-cyanophenyl ester

<b>Inchi:</b>	InChI=1S/C11H11NO2/c1-8(2)11(13)14-10-5-3-9(7-12)4-6-10/h3-6,8H,1-2H3
<b>InchiKey:</b>	YCYITKXAJQLLDP-UHFFFAOYSA-N
<b>Formula:</b>	C11H11NO2
<b>SMILES:</b>	CC(C)C(=O)Oc1ccc(C#N)cc1
<b>Mol. weight [g/mol]:</b>	189.21

## Physical Properties

Property code	Value	Unit	Source
gf	41.34	kJ/mol	Joback Method
hf	-130.51	kJ/mol	Joback Method
hfus	18.67	kJ/mol	Joback Method
hvap	62.26	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.120		Crippen Method
mvol	150.910	ml/mol	McGowan Method
pc	2687.42	kPa	Joback Method
rinpol	1469.00		NIST Webbook
rinpol	1469.00		NIST Webbook
tb	660.67	K	Joback Method
tc	889.47	K	Joback Method
tf	374.82	K	Joback Method
vc	0.588	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.44	J/mol×K	660.67	Joback Method
cpg	383.28	J/mol×K	698.80	Joback Method
cpg	394.31	J/mol×K	736.94	Joback Method
cpg	404.55	J/mol×K	775.07	Joback Method
cpg	414.02	J/mol×K	813.20	Joback Method
cpg	422.74	J/mol×K	851.34	Joback Method
cpg	430.71	J/mol×K	889.47	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308018&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308018&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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